

Title (en)

Multi-stage device for separating drops of liquid from gases

Title (de)

Mehrstufige Vorrichtung zum Abscheiden von Flüssigkeitstropfen aus Gasen

Title (fr)

Dispositif à plusieurs étages de séparation destiné à séparer les gouttes de liquide d'un gaz

Publication

EP 1844837 A1 20071017 (DE)

Application

EP 07104466 A 20070320

Priority

DE 202006006085 U 20060412

Abstract (en)

The air/oil separating element for separating fluid drops from gases comprises a drainage pipeline (17) fixed into a pressure container, an outlet coupled into the container, positioning devices, and a screw compressor for air compressor. The coupling is carried out between the separating element and the pressure container. The first positioning devices correspond to the second positioning devices of the container. The first and the second positioning devices are implemented differently in such a manner that the mounting position of the element is allowed into the pressure container. The air/oil separating element for separating fluid drops from gases comprises a drainage pipeline (17) fixed into a pressure container, an outlet coupled into the container, positioning devices, and a screw compressor for air compressor. The coupling is carried out between the separating element and the pressure container. The first positioning devices correspond to the second positioning devices of the container. The first and the second positioning devices are implemented differently in such a manner that the mounting position of the element is allowed into the pressure container. The coupling of the element is carried out into the pressure container at the first positioning device. A tensing positioning device is mounted on the opposite side of the coupled positioning device at the element. The drainage pipeline is sealed in incorporated condition of the device with an O-ring against the container wall. The mechanical tensing is constructed between the first pressure container side, the tensed positioning device, the separating element, the coupled positioning device and the second pressure container side and axially presses the sealing (24). An independent claim is included for an air condensation plant.

Abstract (de)

Luftentölelement, bei dem eine Drainageleitung beim Einbau des Luftentölelements in einen Behälter, z.B. einen Druckbehälter, an einen Auslass im Inneren des Behälters ankoppelt.

IPC 8 full level

B01D 46/24 (2006.01); **B01D 50/00** (2006.01)

CPC (source: EP US)

B01D 46/0031 (2013.01 - EP US); **B01D 46/2411** (2013.01 - EP US); **F01M 13/04** (2013.01 - EP US)

Citation (applicant)

- DE 3445400 A1 19860619 - BLITZ M SCHNEIDER WERKZEUG UND [DE]
- US 6409804 B1 20020625 - COOK ROGER [GB], et al

Citation (search report)

- [X] US 6409804 B1 20020625 - COOK ROGER [GB], et al
- [X] DE 3445400 A1 19860619 - BLITZ M SCHNEIDER WERKZEUG UND [DE]
- [X] EP 1229248 A2 20020807 - INGERSOLL RAND CO [US]
- [X] EP 0806564 A1 19971112 - BALDWIN FILTERS INC [US]
- [A] DE 19827297 A1 19991223 - MANN & HUMMEL FILTER [DE]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

DE 202006006085 U1 20070816; EP 1844837 A1 20071017; EP 2308581 A1 20110413; EP 2308581 B1 20131009; US 2007240391 A1 20071018; US 7578863 B2 20090825

DOCDB simple family (application)

DE 202006006085 U 20060412; EP 07104466 A 20070320; EP 10185864 A 20070320; US 78373907 A 20070411